

Title (en)

Device for monitoring the longitudinal forces applied by a railway vehicle wheel on the rail.

Title (de)

Vorrichtung zur Überwachung der Längskräften, die von einem Schienenfahrzeugsrad auf die Schiene aufgebracht werden.

Title (fr)

Dispositif de surveillance de l'effort longitudinal appliqué par une roue d'un véhicule ferroviaire sur le rail.

Publication

EP 1593572 A1 20051109 (EN)

Application

EP 05252838 A 20050509

Priority

GB 0410326 A 20040508

Abstract (en)

Equipment for monitoring longitudinal forces between the wheels (27) of a vehicle and the track (35) consists of at least one displacement transducer (38, 40) arranged to monitor any longitudinal movement of the wheel relative to the bogie; and an accelerometer (42, 43) arranged to measure longitudinal acceleration. The low frequency forces can be determined from the displacement measurements, and the high frequency forces can be determined from the accelerometer measurements. These forces are a contributing factor to the development of rolling contact fatigue, and the equipment enables features of the track or the vehicle which exacerbate such forces to be identified. <IMAGE>

IPC 1-7

B61K 9/08

IPC 8 full level

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CPC (source: EP)

B61K 9/08 (2013.01)

Citation (search report)

- [DA] WO 0070148 A1 20001123 - AEA TECHNOLOGY PLC [GB], et al
- [A] WO 03006298 A1 20030123 - AEA TECHNOLOGY PLC [GB], et al

Cited by

WO2011019273A1; CN102890143A; GB2443646A; NL2003351C2; CN102548828A; US7853412B2; WO2006130908A1; US8905359B2

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